

Wireless System With Transmitter Having Multiple Transmit Antennas And  
Combining Open Loop and Closed Loop Transmit Diversities

ABSTRACT OF THE DISCLOSURE

A wireless communication system (40). The system comprises transmitter circuitry (42) comprising encoder circuitry (44) for receiving a plurality of symbols ( $S_i$ ). The system further comprises a plurality of antennas (AT1-AT4) coupled to the transmitter circuitry and for transmitting signals from the transmitter circuitry to a receiver (UST), wherein the signals are responsive to the plurality of symbols. Further, the encoder circuitry is for applying open loop diversity and closed loop diversity to the plurality of symbols to form the signals.

004250-10032500